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(71)Applicant : BRIDGESTONE CORP

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(72)Inventor : NAKAGAWA RYUJI

(54) RUBBER COMPOSITION, AND PNEUMATIC TIRE AND RACING TIRE USING SAME AS TREAD

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a composition which satisfies the wet skid resistance and dry grip property of an automotive tire aside from the wear resistance and breakage characteristic thereof by compounding specified amounts of a styrene-butadiene copolymer and a hydrogenated styrene-butadiene copolymer, which, respectively, have specific molecular weights and specific component ratios.

SOLUTION: 100 pts.wt. of a styrene-butadiene copolymer (A), which has a weight average molecular weight (GPC method), in terms of polystyrene, of 4.0×10^5 to 3.0×10^6 , a bound styrene content of 10 to 50 wt.%, and an amount of bound vinyl at the butadiene moiety of 20 to 70% and which is polymerized using a lithium initiator, is compounded with 10 to 300 pts.wt. of a hydrogenated styrene-butadiene copolymer (B), which has a weight average molecular weight (GPC method), in terms of polystyrene, of 5.0×10^3 to 2.0×10^5 and a bound styrene content of 25 to 70 wt.% and wherein 60% or more of the double bonds of the butadiene moiety is hydrogenated, in such a way as to satisfy the relation of the amount of the bound styrene in the copolymer B > the amount of the bound styrene vinyl in the copolymer A+10.

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